... Title: Synthesis of Antimicrobial Activity of Novel Dicationic "Reversed

Amidines"

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Scheme 1

Scheme 1
$$(Bun)_3Sn \bigcirc Sn(nBu)_3 + X_1 \bigcirc X_2 \bigcirc X$$

b or c
$$\begin{array}{c}
X_1 \\
X_2 \\
X_2
\end{array}$$

$$X_1 \\
NH_2$$

a) Pd(PPh₃), 1,4-dioxane, Δ. b) H₂, Pd/C, EtOAc, EtOH.

c) SnCl₂ dihydrate, EtOH, DMSO, Δ.

DMF

Scheme 2 SMe

BocHN NBoc

HgCl₂, RHN NR

HgCl₂, TEA,

$$X_1$$
 X_1
 X_2
 X_2
 X_2
 X_1
 X_1
 X_1
 X_2
 X_2
 X_1
 X_1

Scheme 3

Legend for compounds 2-5

 $a X_1 = H, X_2 = H$

b $X_1 = Me, X_2 = H$

 $c X_1 = OMe, X_2 = H$

 $d X_1 = Cl, X_2 = H$

 $e X_1 = CF_3, X_2 = H$

 $f X_1 = Me, X_2 = Me$

See Table 1 for compound 6

Scheme 4